

# BIOSPERSER 4505

## MICROBIOCIDES FOR INDUSTRIAL USE ONLY

This product is designed specifically for control of bacteria, fungi and algae in industrial recirculating cooling water systems such as cooling towers, air washers and evaporative condensers and for use as a preservative in aqueous metal-working fluids.

### DIRECTIONS FOR USE

#### GENERAL CLASSIFICATION:

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Refer to BIOSPERSER 4505 microbiocide Product Data Sheet for use directions and other technical information.

### STORAGE AND DISPOSAL

**STORAGE:** Do not contaminate water, food, or feed by storage or disposal. Avoid extreme heat or freezing. Store in ventilated area.

**DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Triple rinse (or equivalent) all containers then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Plastic containers may also be disposed of by incineration or if allowed by state and local authorities, by burning. If burned, stay out of smoke.



Manufactured in the United States  
ES-649-R-7/84

### ACTIVE INGREDIENTS:

5-Chloro-2-methyl-4-isothiazolin-3-one . . . . 0.575%

2-Methyl-4-isothiazolin-3-one . . . . . 0.175%

INERT INGREDIENTS: . . . . . 99.250%

KEEP OUT OF REACH OF CHILDREN

## DANGER

### STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Do not induce vomiting. Drink promptly a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately.

If Inhaled: Remove immediately to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Call a physician.

If On Skin: Wash thoroughly with soap and water. Remove and wash contaminated clothing before reuse.

If In Eyes: Flush with plenty of water for at least 15 minutes. Call physician.

SEE SIDE PANEL FOR ADDITIONAL  
PRECAUTIONARY STATEMENTS

EPA Reg. No. 1757-74

EPA Est. No. 1757-NJ-1

1757-NJ-2

1757-TX-1

ACCEPTED  
OCT 25 1984  
at the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under  
EPA Reg. No. 1757-74

**Drew Chemical Corporation**

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### PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS  
AND DOMESTIC ANIMALS

## DANGER

### CORROSIVE

CAUSES EYE DAMAGE AND SKIN BURNS

MAY CAUSE ALLERGIC SKIN REACTION

MAY BE HARMFUL IF INHALED

MAY BE FATAL IF SWALLOWED OR

ABSORBED THROUGH THE SKIN

Do not get in eyes, on skin, on clothing. Wear goggles or face shield and rubber gloves when handling. Avoid breathing vapor or mist. Avoid contamination of food. Do not take internally. Wash thoroughly after handling.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. Do not discharge treated effluent into lakes, streams, ponds or public waters unless in accordance with an NPDES permit. For guidance contact your Regional Office of the EPA. Do not contaminate water by cleaning of equipment or disposal of waste.

### NET CONTENTS MARKED ON DRUM

IMPORTANT NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for purposes stated on the label under normal conditions of use. THE FOLLOWING WARRANTIES ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES, WHETHER WRITTEN, ORAL OR IMPLIED. THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN OTHER REFLECTS THAT ASER PRESENTLY SET FORTH HEREIN ARE EXPRESSLY EXCLUDED AND DISCLAIMED.

and other working fluids.

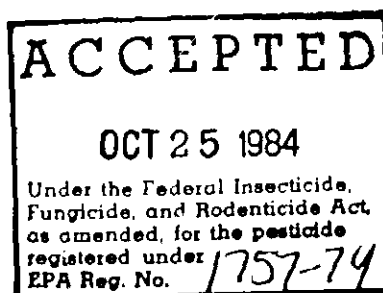
BIOSPERSE® 4505 provides:

- a. Broad spectrum control of microorganisms in cooling water systems and metal working fluids.
- b. Easy handling in liquid form.
- c. Effectiveness at low concentrations.
- d. Resistance to the inhibitory effects of organic and inorganic compounds.
- e. Decomposition in the aquatic environment.

BIOSPERSE® 4505 is not recommended for use in potable water systems or where contamination of potable water can occur.

This bulletin is designed to assist you in the use of BIOSPERSE® 4505. It includes properties of BIOSPERSE® 4505, application rates, and procedures and information on toxicity and disposal.

Drew Chemical Corporation offers the services of trained professional personnel to assist in the determination of levels and rates of treatment to provide an efficient and economical slime control program.



All statements, information and data presented herein are believed to be accurate and reliable but are not to be taken as a guarantee, express warranty or implied warranty of merchantability or fitness for a particular purpose, or representation, express or implied, for which seller assumes legal responsibility and they are offered solely for your consideration, investigation and verification. Statements or suggestions concerning possible use of this product are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe on any patent.

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## TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

Composition:	A combination of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one
Appearance:	Clear, pale green liquid
Odor:	Little or none
pH:	3.88
Specific Gravity:	1.01
Weight per U.S. Gallon:	8.6 lbs.
Solubility:	BIOSPERSE® 4505 is soluble in water in all proportions

## DOSAGE

The dosage of BIOSPERSE® 4505 required for a specific application will depend upon a number of factors including: the nature and extent of the microbiological contamination, the type and volume of the system being treated, the degree of control desired and retention time in the system. Where necessary, your Drew representative will arrange for microbiological and chemical analyses, so that technical advice can be given concerning specific site problems.

## APPLICATION

### Industrial Recirculating Cooling Water Systems

For control of microorganisms, add 0.42 - 1.68 pounds or 6.2 - 25.2 fluid ounces of BIOSPERSE® 4505 per 1,000 gallons of water in the system. The amount of antimicrobial required will depend on the nature and extent of contamination, quality of the makeup water and the degree of control required.

### Intermittent or Slug Method

**Initial Dose:** When the system is noticeably fouled, apply 0.84 - 1.68 pounds or 12.6 - 25.2 fluid ounces of BIOSPERSE® 4505 per 1,000 gallons of water in the system. Repeat periodically until control is achieved. Badly fouled systems must be cleaned before treatment is begun.

**Subsequent Dose:** When microbial control is evident, add 0.84 pounds or 12.6 fluid ounces of BIOSPERSE® 4505 per 1,000 gallons of water to the system weekly, or as needed to maintain control.

## Metal Working Fluids

To maintain an uncontaminated system, a minimum dosage level of approximately 7.72 pounds or 116 fluid ounces of BIOSPERSE® 4505 per 1,000 gallons of water every four weeks would be appropriate. Every eight to twelve weeks, 8.28 - 39.8 pounds or 124 - 572 fluid ounces of BIOSPERSE® 4505 per 1,000 gallons of water would be appropriate. For a noticeably fouled system, an initial treatment at a dosage range of 16.56 - 39.8 pounds or 248 - 572 fluid ounces per 1,000 gallons of water in the system would be suitable followed by maintenance dosages. Higher dosages and more frequent treatments may be needed, depending on the rate of dilution of the preservative in the makeup fluid, the nature and severity of contamination, the level of control required, the effectiveness of filtration and the system design.

## SUGGESTED HANDLING OF SPILLS

Personnel cleaning up spills should wear impervious overshoes in addition to the usual protective clothing. The spilled material is diked and absorbed in an inert solid such as clay or vermiculite. The absorbent (and surface soil to a depth sufficient to remove all microbiocide) is then shoveled into a pail or drum and treated with enough decontaminant solution to wet the solid thoroughly. Let these containers stand open for 48 hours to avoid the buildup of pressure; then seal and dispose of by burying as landfill. The decontaminated area is washed with additional decontaminant solution and then flushed into a chemical or municipal sewer. Do not discharge spills and cleaning runoffs into open bodies of water. Remove contaminated clothing promptly; launder before reuse. Wash skin with soap and water.

EPA REG. NO. 1757 - 74

